

The SKYLINE OF AMERICA



CARNEGIE STEEL COMPANY
Subsidiary of **UNITED STATES STEEL CORPORATION**

Digitized by:



ASSOCIATION FOR PRESERVATION TECHNOLOGY
www.apti.org

For the

BUILDING TECHNOLOGY HERITAGE LIBRARY

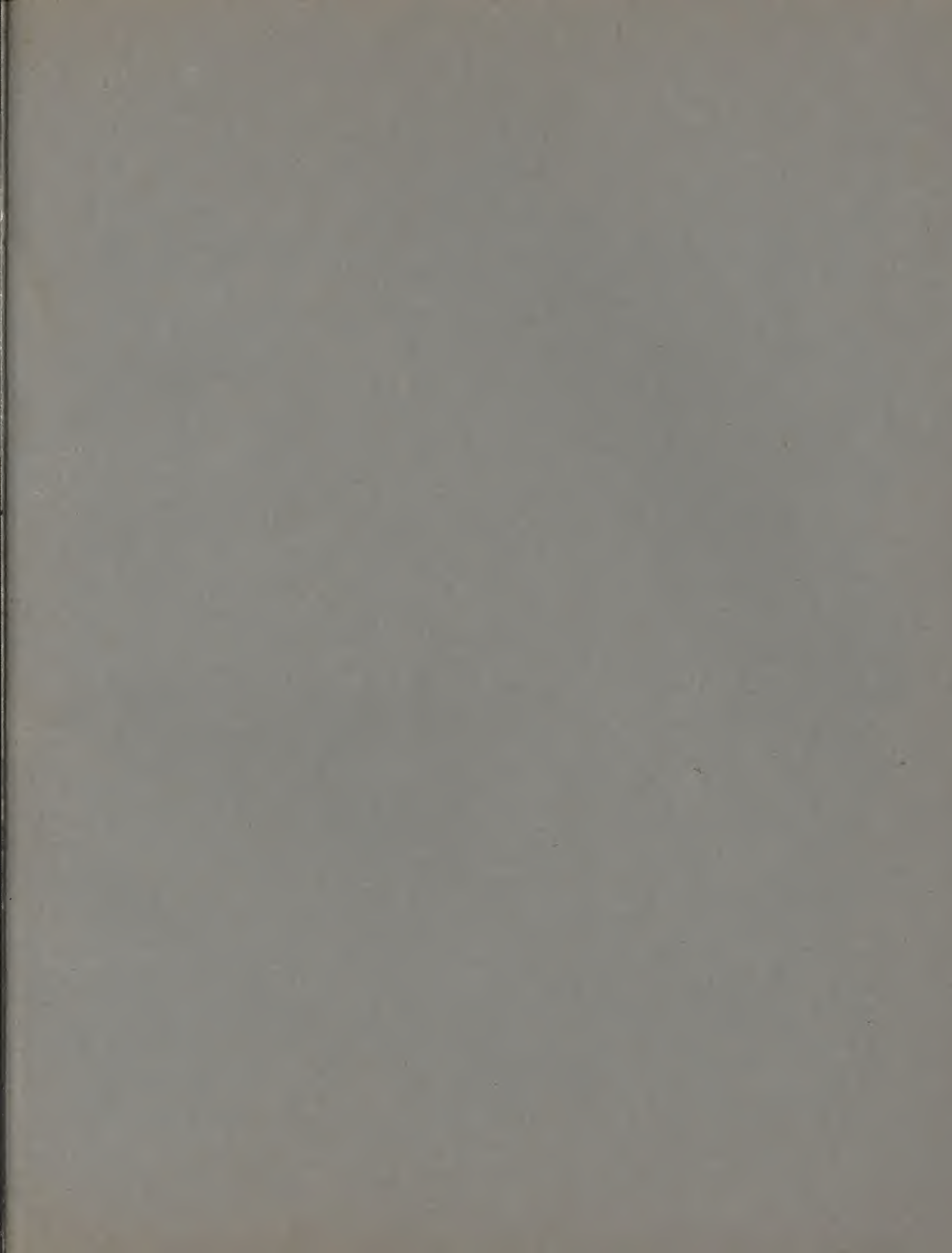
<https://archive.org/details/buildingtechnologyheritagelibrary>

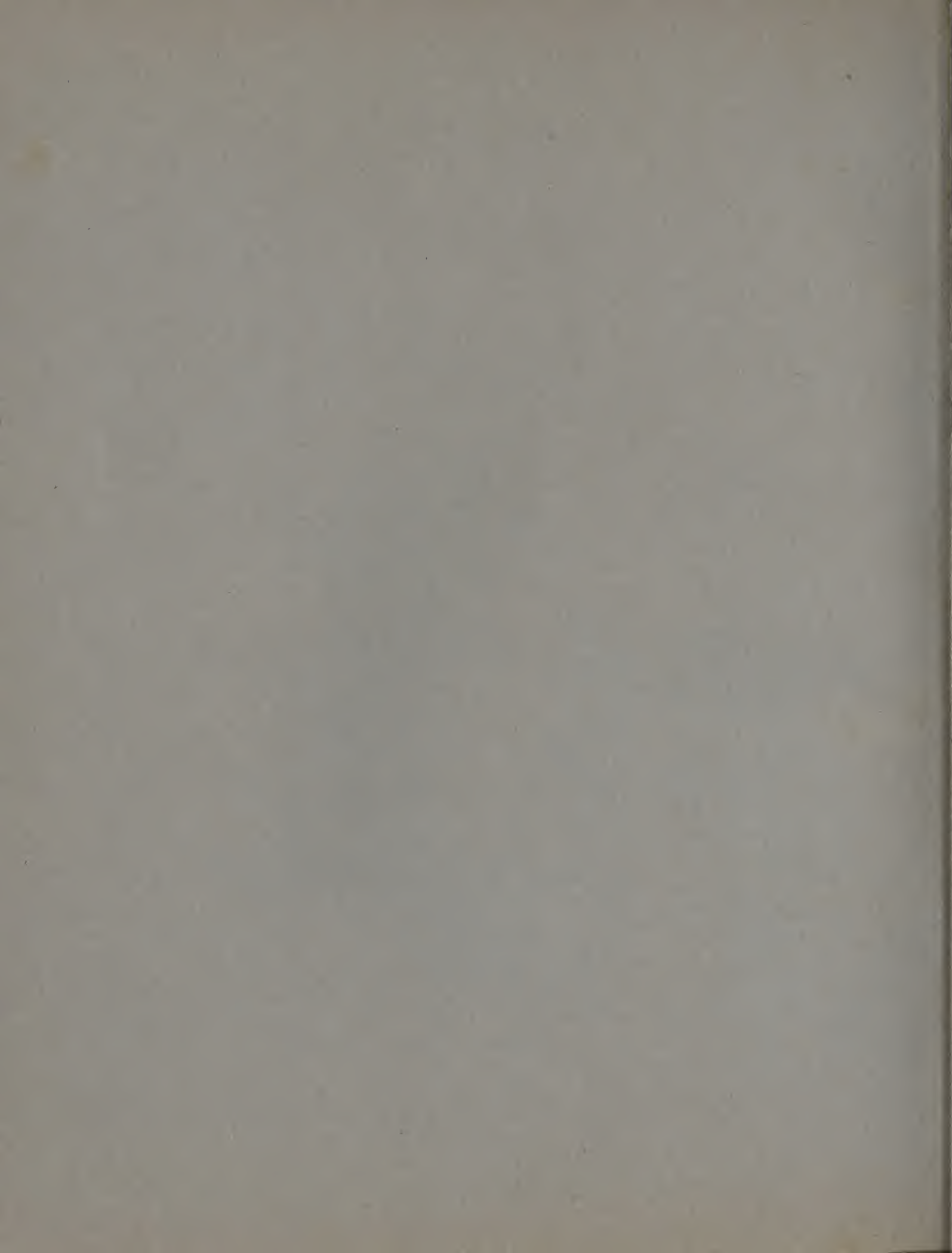
From the collection of:



SOUTHEASTERN ARCHITECTURAL ARCHIVE
SPECIAL COLLECTIONS
HOWARD-TILTON MEMORIAL LIBRARY

<http://seaa.tulane.edu>





THE NEW YORK
LIBRARY



NEW YORK
LIBRARY

Copyright, 1929, by
CARNEGIE STEEL COMPANY
PITTSBURGH, PA.

FIRST EDITION—APRIL 1, 1929
PRINTED IN U. S. A.

The SKYLINE *of* America



CARNEGIE STEEL COMPANY

Subsidiary of UNITED STATES STEEL CORPORATION
P I T T S B U R G H ~ ~ P A.



Courtesy of "The American Architect"

Photograph by Ewing Galloway, N. Y.

THE SKYLINE OF NEW YORK CITY AS SEEN FROM GOVERNOR'S ISLAND.

720.973 C289s



THE HOME LIFE INSURANCE BUILDING, CHICAGO

The Skyline of America

THAT marvelous structure we call the skyscraper is distinctly and characteristically American. It was born of economic necessity, due to ever-increasing needs for expansion and advancing values of land. Higher and yet higher building has been the logical solution. Credit for the conception and development of this type of construction is due the American architects who have carried on where Jenny, Burnham, Root and Holabird pioneered.

Buildings of solid masonry had met a limit in their upward climb. The higher the building, the thicker became the lower walls, until their fortress-like breadth threatened to devour the entire ground floor space, the most valuable of all. From this point on, the history of the development of the skyscraper parallels that of structural steel. Without steel the modern skyscraper would be impossible. To the casual observer, it appears a monument of stone or brick, but strip off this veneer and back of it will be found the skeleton of steel.

In Chicago, in 1884, the first true skyscraper in America was built — the Home Life Insurance Building, a ten story structure, still standing at La Salle and Adams Streets. This was the first building in which the dead load was taken off the walls and placed on a skeleton framework of wrought iron encased in masonry. While iron sections were quite common at that time, Bessemer steel was just being developed and permission was granted to Carnegie Steel Company to substitute their new steel sections for the four upper floors of this building.

The introduction of the steel beam proved a great impetus to higher building, and each further improvement in structural steel added momentum to this skyward movement. In 1896 the present American Standard Sections were adopted. Twelve years later wide flange column and girder sections were placed upon the market, permitting longer span construction and simplifying column design. This was a most radical advance in structural steel and was far reaching in its effect on the building industry. The most recent improvement came with the introduction of Carnegie Beam Sections in the Spring of 1927. A new form of contour was adopted for these sections in which internal flange slope was eliminated, the flanges being of uniform thickness throughout their width. This again increased the strength of the section, permitted simpler connections and facilitated fabrication and erection. The technical discussion of Carnegie Beams, however, will not be attempted here, inasmuch as it is contained in complete detail in the book, "Carnegie Beam Sections," copy of which may be secured from any district office of this company.

In the following pages are presented some of the buildings in which Carnegie Beams are used. A variety of structures are pictured, to show that the advantages of these sections are not confined to skyscrapers alone, but are applicable to any type of building in which structural steel is used. Introduced to the trade two years ago, we feel that the success of Carnegie Beams has been rather remarkable. Their enthusiastic reception is an evident indication that they fill a need long felt by architects, engineers and builders throughout the country.

Although the steel manufacturers have had a most important part in the history of the skyscraper, it has been through the efforts and vision of the architect that it has evolved from the box-like structure of past generations until to-day it towers above our cities majestic, superb, classic in its expression of rugged strength and simplicity in line and form. It is a new architecture that has been created, rivalling anything that the world has yet conceived. To future generations it will stamp us as a nation of builders ~ a nation of people who contrived to clothe necessity with beauty. The skyline of any of our great cities presents an impressive silhouette of ruggedness and massive strength that symbolizes the very keynote of American business.

CARNEGIE BUILDING, PITTSBURGH
The Home Office of Carnegie Steel Company and one
of the first structural steel buildings of the skyscraper
type in the Pittsburgh district. Erected 1893-1894.





CHRYSLER BUILDING, NEW YORK CITY

William Van Alen, *Architect*. Ralph Squire, *Structural Engineer*. American Bridge Company, *Fabricators*.
Post & McCord, *Structural Steel Contractors*. Fred T. Ley Company, *General Contractors*.



HOTEL NEW YORKER, NEW YORK CITY

Sugarman & Berger, Architects. Lange & Noska, Structural Engineers.
American Bridge Company, Fabricators. Meriden Securities Corporation, Builders.



THE BANK OF NEW YORK & TRUST COMPANY BUILDING, NEW YORK CITY

Benjamin W. Morris, *Architect.* Purdy & Henderson, *Steel Designers.*

Hay Foundry and Iron Works, *Fabricators.* Marc Eidlitz & Son, *General Contractors.*



FULLER BUILDING, NEW YORK CITY

Walker & Gillette, *Architects.* Purdy & Henderson, *Structural Engineers.*
American Bridge Company, *Fabricators.* George A. Fuller Company, *General Contractors.*



No. 10 EAST FORTIETH STREET, NEW YORK CITY

Ludlow & Peabody, *Architects*. H. G. Balcom, *Structural Engineer*. American Bridge Company, *Fabricators*.
Taylor-Fichter Steel Construction Company, *Structural Steel Contractors*. G. Richard Davis & Company, *General Contractors*.



WESTERN UNION TELEGRAPH BUILDING, NEW YORK CITY

Voorhees, Gmelin & Walker, *Architects and Structural Engineers.* American Bridge Company, *Fabricators.*
Post & McCord, *Structural Steel Contractors.* Marc Eidlitz & Son, *General Contractors.*



NEW JERSEY BELL TELEPHONE COMPANY BUILDING, NEWARK
Voorhees, Gmelin & Walker, *Architects.* American Bridge Company, *Fabricators.*
Turner Construction Company, *General Contractors.*



GRANT BUILDING, PITTSBURGH

Henry Hornbostel, *Architect*. Eric Fisher Wood & Company, *Associate Architects*. M. Neumann, D.T.S., *Structural Engineer*.
American Bridge Company, *Fabricators*. Thompson-Starrett Company, *General Contractors*.



KOPPERS BUILDING, PITTSBURGH

Graham, Anderson, Probst & White, *Architects.* Mellon-Stuart Company, *Contracting Engineers.*
McClintic-Marshall Construction Company, *Fabricators.* Bass Construction Company, *Steel Erectors.*



CATHEDRAL OF LEARNING, UNIVERSITY OF PITTSBURGH

Charles Z. Klauder, *Architect*. H. G. Balcom, *Structural Engineer*. McClintic-Marshall Construction Company, *Fabricators*.
John L. Mullen Construction Company, *Erectors*. Stone & Webster Engineering Corporation, *Supervision of Construction*.



FISHER BUILDING, DETROIT

Albert Kahn, Inc., *Architects and Engineers*, Office and Garage Portion. Graven & Mayger, *Architects*, Theatre Portion.
Lieberman & Hein, *Engineers*, Theatre Portion. American Bridge Company, *Fabricators*.
Detroit Steel Construction Company, *Steel Erectors*. H. G. Christman-Burke Company, *General Contractors*.



PENOBSCOT BUILDING, DETROIT

Smith, Hinchman & Grylls, *Architects and Engineers.* Donaldson & Meier, *Advisory Architects.*
American Bridge Company, *Fabricators.* Detroit Steel Construction Company, *Erectors.*
Albert A. Albrecht Company, *General Contractors.*



RAND TOWER, MINNEAPOLIS

Holabird & Root, *Architects and Engineers.* Minneapolis Steel & Machinery Company, *Fabricators.*
C. F. Haglin & Sons, *General Contractors.*



No. 1 LA SALLE STREET BUILDING, CHICAGO
K. M. Vitzthum & Company, *Architects.* James B. Black, *Consulting Engineer.*
American Bridge Company, *Fabricators.*



PALMOLIVE BUILDING, CHICAGO
Holabird & Root, *Architects.* American Bridge Company, *Fabricators.*
The Lundoff-Bicknell Company, *General Contractors.*



FOREMAN BANK BUILDING, CHICAGO

Graham, Anderson, Probst & White, *Architects*. Hansell-Elcock Company, *Fabricators*.
Paschen Brothers, *General Contractors*.



WILLOUGHBY TOWER BUILDING, CHICAGO
S. N. Crowen & Associates, *Architects.* American Bridge Company, *Fabricators.*
Dilks Construction Company, *Builders.*



ENGINEERING BUILDING, CHICAGO

D. H. Burnham & Company, *Architects.* Benjamin Shapiro, *Consulting Engineer.*
American Bridge Company, *Fabricators.* Paschen Brothers, *General Contractors.*



CHICAGO DAILY NEWS BUILDING, CHICAGO
Holabird & Root, *Architects.* American Bridge Company, *Fabricators.*
Hegeman-Harris Company, Inc., *General Contractors.*



CARBIDE AND CARBON BUILDING, CHICAGO
D. H. Burnham & Company, *Architects.* American Bridge Company, *Fabricators.*
Paschen Brothers, *General Contractors.*



CHICAGO BOARD OF TRADE BUILDING, CHICAGO
Holabird & Root, Architects and Engineers. American Bridge Company, Fabricators.



PHILTOWER BUILDING, TULSA

Keene & Simpson, *Architects*. Edward Buehler Delk, *Associate Architect*.
Kansas City Structural Steel Company, *Fabricators*. Long Construction Company, *General Contractors*.



SIR FRANCIS DRAKE HOTEL, SAN FRANCISCO
*Weeks & Day, Architects and Engineers. Judson Pacific Company, Fabricators.
Lindgren & Swinerton, General Contractors.*



FRENCH HOSPITAL, NEW YORK CITY
 Crow, Lewis & Wick, *Architects and Engineers.*
 Hinkle Steel Construction Company, *Fabricators.*
 George A. Fuller Company, *General Contractors.*



BROOKLYN EYE & EAR HOSPITAL,
 BROOKLYN, N. Y.
 Crow, Lewis & Wick, *Architects and Engineers.*
 George A. Just Company, *Fabricators.*
 Wm. Kennedy Construction Company,
General Contractors.



MOUNT STEPEN—STRATHCONA
 MEMORIAL, HARRISON, N. Y.
 Crow, Lewis & Wick, *Architects and Engineers.*
 McClintic-Marshall Construction Company,
Fabricators.
 George A. Fuller Company,
General Contractors.

UNION GAS AND ELECTRIC BUILDING, CINCINNATI
 Garber & Woodward, *Architects.* Euphrat & Hanley, *Steel Designers.*
 American Bridge Company, *Fabricators.*
 George A. Fuller Company, *General Contractors.*



CINCINNATI & SUBURBAN BELL TELEPHONE COMPANY
 BUILDING, CINCINNATI

Harry Hake, *Architect and Engineer.*
 Charles H. Kuck, *Associate Architect.*
 American Bridge Company, *Fabricators.*



FOUNTAIN SQUARE BUILDING, CINCINNATI
 Harry Hake, *Architect*. Charles H. Kuck, *Associate Architect*.
 Lieberman & Hein, *Engineers and Steel Designers*.
 American Bridge Company, *Fabricators*.
 The J. & F. Harig Company, *General Contractors*.



WATER BOARD BUILDING, DETROIT
 Louis-Kamper, Inc., *Architects*.
 Mahon Structural Steel Company, *Fabricators and Erectors*.
 A. W. Kutsche & Company, *General Contractors*.



RHODES-HAVERTY BUILDING, ATLANTA
 Pringle & Smith, *Architects.* Robert E. Lose, *Structural Engineer.*
 Ingalls Iron Works Co., *Fabricators.*
 Southern Ferro Concrete Co., *General Contractors.*



AMERICAN BANK & TRUST COMPANY BUILDING, NEW ORLEANS
 Moise H. Goldstein, *Architect.* Jens Braae Jensen, *Structural Engineer.*
 Louisiana Erecting Co., Inc., *Fabricators and Erectors.*
 George H. Glover Co., Inc., *General Contractors.*



EDGEWATER BEACH APARTMENT HOTEL,
CHICAGO

Benjamin H. Marshall, *Architect and Steel Designer.*
American Bridge Co., *Fabricators.*
Nils Johnsen Co., *Erectors.*
Benjamin H. Marshall Construction Company,
General Contractors.



APARTMENT—70 EAST 96th STREET,
NEW YORK CITY

Rosario Candela, *Architect.*
Gunvald Aus Co., *Structural Engineers.*
Hinkle Steel Construction Company, *Fabricators.*
68 East 96th Street Corporation, *Owners and Builders.*



APARTMENT—855-56 FIFTH AVENUE, NEW YORK CITY

Warren & Wetmore, Rosario Candela, *Architects.*
Alex. D. Crosett, *Structural Engineer.*
Easton Structural Steel Co., *Fabricators.*
Michael E. Paterno, *Owner and Builder.*



THE PITTSBURGHER HOTEL, PITTSBURGH
H. L. Stevens & Company, *Architects and Builders.*
H. G. Balcom, *Structural Engineer.*
McClintic-Marshall Construction Co., *Fabricators.*



WILLIAM PENN HOTEL ADDITION,
PITTSBURGH
Janssen & Cocken, *Architects.*
B. F. Hastings & H. P. King, *Structural Engineers.*
American Bridge Company, *Fabricators.*
Walter T. Grange Construction Company, *Builders.*



KEYSTONE ATHLETIC CLUB, PITTSBURGH
Janssen & Cocken, *Architects.*
H. P. King, *Structural Engineer.*
Fort Pitt Bridge Co., *Fabricators.*
Mellon-Stuart Co., *General Contractors.*



FAXON BUILDING, QUINCY, MASS.
*Shepard & Stearns, Architects. The Palmer Steel Company, Fabricators and Erectors.
 W. A. & H. A. Root, General Contractors.*



BANK OF COMMERCE AND TRUST COMPANY BUILDING, MEMPHIS
*Hanker & Cairns, Architects. Pidgeon-Thomas Iron Company, Fabricators.
 S. & W. Construction Company, General Contractors.*



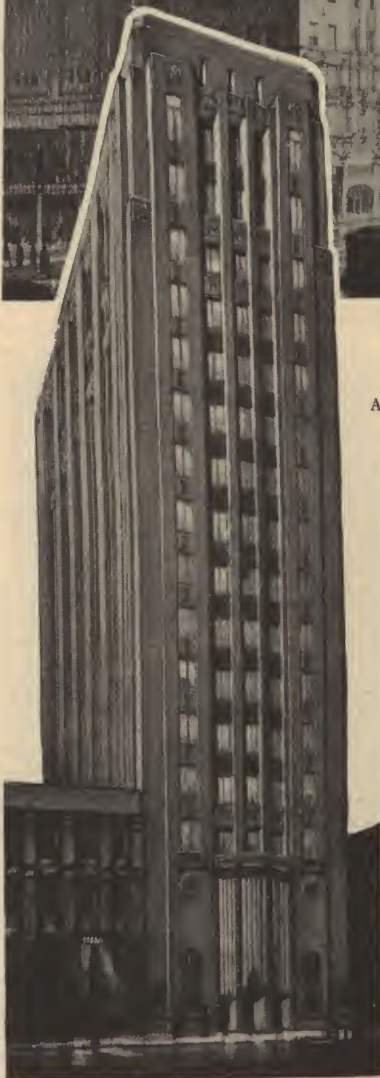
MAJESTIC THEATRE, SAN ANTONIO

John Eberson, *Architect.*
R. W. Nickerson, *Structural Engineer.*
Petroleum Iron Works Co., *Fabricators.*
American Construction Co., *General Contractors.*



NORWOOD BUILDING, AUSTIN, TEXAS

Geisecke & Harris, *Architects.*
Mosher Steel & Machinery Co.,
Fabricators and Erectors.
Frank Barrow, *General Contractor.*



CHICAGO MOTOR CLUB, CHICAGO

Holabird & Root, *Architects.*
Gage Structural Steel Co., *Fabricators.*
Henry Ericsson Company, *General Contractors.*



TEMPLE SINAI, NEW ORLEANS

Emile Weil, Inc., Moise H. Goldstein, Dreyfus & Seiferth, *Associated Architects.*
Jens Braae Jensen, *Structural Engineer.*
Lukens Steel Co., *Fabricators.*
Louisiana Erecting Co., Inc., *Erectors.*



O'CONNOR-MOFFATT STORE, SAN FRANCISCO
 Lewis P. Hobart, *Architect.* T. Ronneberg, *Structural Engineer.*
 American Bridge Co., *Fabricators.*
 Dinwiddie Construction Co., *General Contractors.*



ADDITION TO BAMBERGER'S, NEWARK
 Jarvis Hunt, *Architect.*
 American Bridge Co., *Fabricators.*
 George A. Fuller Co., *General Contractors.*



HUDSON STORE BUILDING, DETROIT
 Smith, Hinchman & Grylls, *Architects and Engineers.* American Bridge Company, *Fabricators.*
 Detroit Steel Construction Co., *Erectors.* Bryant & Detwiler, *General Contractors.*



BROAD STREET TITLE & TRUST COMPANY BUILDING,
PHILADELPHIA

Ritter & Shay, *Architects*. Henry Miller, *Designing Engineer*.
Montgomery Iron & Steel Company, *Fabricators*.
Murphy-Quigley Company, *General Contractors*.



MASONIC TEMPLE, NEW BRITAIN, CONN.

Walter P. Crabtree & Son, *Architects*.
Berlin Construction Company, *Fabricators and Erectors*.
Wm. H. Allen & Company, Inc., *General Contractors*.



LINWOOD MEDICAL CENTRE, BUFFALO

Bacon & Lurkey, *Architects*.
Thomas McKaig, *Structural Engineer*.
C. F. Ernst's Sons, *Fabricators*.



ROGER SMITH HOTEL, STAMFORD, CONN.
 Laurence M. Loeb & Laurence Emmons, *Architects.*
 The Porcupine Company, *Steel Contractors.*
 Roger Smith Corporation, *Owners and Builders.*



SANBORN HALL AND FINE ARTS HALL,
 DARTMOUTH COLLEGE, HANOVER, N. H.

Jens Frederick Larson, *Architect.*
 The Palmer Steel Company, *Fabricators and Erectors.*
 Hegeman-Harris Company, *General Contractors.*





UNIVERSITY OF ROCHESTER BUILDINGS, ROCHESTER, N. Y.

Gordon & Kaelber, *Architects*. Charles A. Platt, *Associate Architect*.
 L. M. Sanford, *Structural Engineer*. Genesee Bridge Co., *Fabricators*.
 A. W. Hopeman & Sons Co., *General Contractors*.

Lower view shows Library shown in center of upper groups.



HIGH SCHOOL, WICHITA, KANSAS

Glen H. Thomas, *Architect*.
 Roy Finney, *Structural Engineer*.
 Western Iron & Foundry Company, *Fabricators and Erectors*.
 Ernest, Rokahr & Sons, *General Contractors*.



ST. MATTHIAS SCHOOL, NEW ORLEANS

Martin Shepard, *Architect*.
 Theard & Matthews, *Associated Architects*.
 Jens Braae Jensen, *Structural Engineer*.
 Lukens Steel Company, *Fabricators*.
 Louisiana Erecting Company, Inc., *Erectors*.



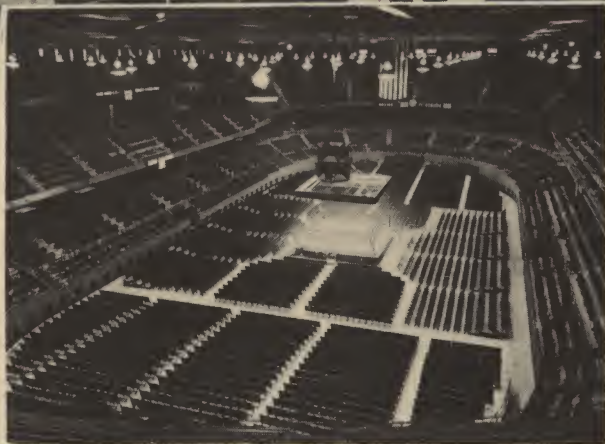
WESTMINSTER GYMNASIUM,
 SALT LAKE CITY

W. E. Ware, *Architect*.
 Frank M. Allen Company, *Fabricators*.
 W. A. Stumm, *General Contractor*.



NORTH STATION, BOSTON & MAINE R. R., BOSTON
 Funk & Wilcox Company, *Architects.*
 Fellheimer & Wagner, *Associate Architects.*
 Dwight P. Robinson & Company, Inc., *Engineers and Constructors.*
 Wallace E. Belcher, *Designing Engineer.*
 American Bridge Company, *Fabricators.*

Right—View of Arena Interior.



Steel Framing of Arena Floor.



West End and Coliseum Framing.



UNION BUS TERMINAL, DENVER
 Shanklin-Ristine Company, *Architects and Engineers.*
 American Bridge Company, *Fabricators.*
 Karl Burghardt, *General Contractor.*



NORTHERN STATES POWER COMPANY BUILDING, MINNEAPOLIS
 Byllesby Engineering & Management Corporation,
Architects, Engineers & General Contractors.
 Minneapolis Steel & Machinery Co., *Fabricators.*



THE WARD HOTEL, ABERDEEN, S. D.
 Ellerbe & Co., *Architects and Engineers.* St. Paul Structural Steel Co., *Fabricators.*
 S. W. Jonason & Co., *General Contractors.*

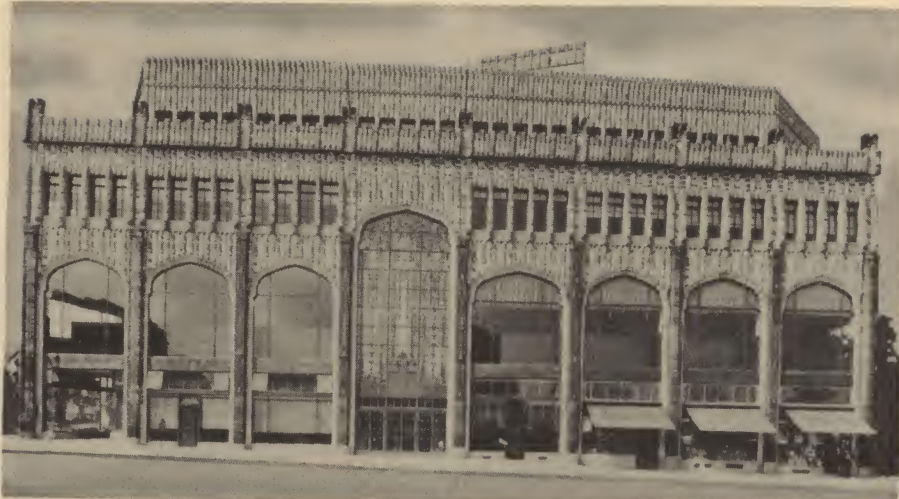


BROADMOOR COUNTRY CLUB—ADDITION,
COLORADO SPRINGS, COLORADO
E. E. Nieman, *Architect.* American Bridge Company, *Fabricators.*
L. V. Martin, *General Contractor.*

Right—CORNING BUILDING, HARTFORD, CONN.
Whiton & McMahon, *Architects.*
Standard Structural Steel Company, *Fabricators.*
M. A. Connor Company, *General Contractors.*

Below—TRIBUNE PRESS BUILDING, SALT LAKE CITY
W. E. Ware, *Architect.* N. J. Kuhre, *Steel Designer.*
American Bridge Company, *Fabricators.* J. J. Burke & Company, *General Contractors.*





GENEROTSKY GARAGE, ATLANTIC CITY
A. W. Cunningham & Company,
Designers and General Contractors.
Montgomery Iron & Steel Company, *Fabricators.*

SERVICE STATION
BORDEN'S FARM PRODUCTS COMPANY
NEW YORK CITY
Joseph C. Schaeffler,
Architect and Structural Engineer.
National Bridge Works, *Fabricators.*
H. D. Best Company, *General Contractors.*



ANCHOR GARAGE, DENVER
Robert K. Fuller, *Architect and Steel Designer.*
E. Burkhardt & Sons Steel & Iron Works Company, *Fabricators.*
O. E. Bruggeman, *General Contractor.*

GENERAL BAKING COMPANY PLANT
WICHITA, KANSAS
Archer & Gloyd, *Architects.*
Havens Structural Steel Company, *Fabricators.*
The Bickel Contracting Company, *General Contractors.*





NURSES' HOME—"OUR LADY OF VICTORY"
LACKAWANNA, NEW YORK

Rogers Structural Steel Company, *Fabricators.*
Edward Jordan, *General Contractor.*



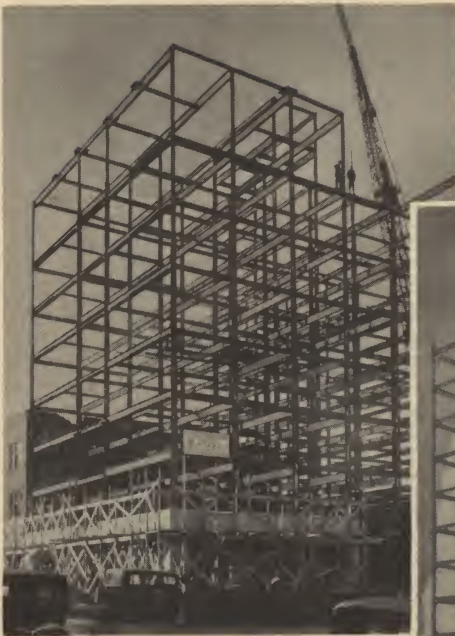
THE SIXTY-NINTH STREET CENTRE BUILDING
UPPER DARBY, PA.

Tunis & Baker, *Architects.*
Montgomery Iron & Steel Co., *Fabricators.*
George Kessler Contracting Co., *General Contractors.*



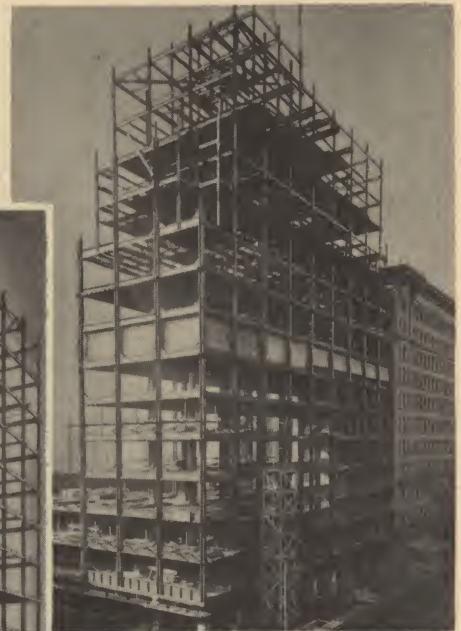
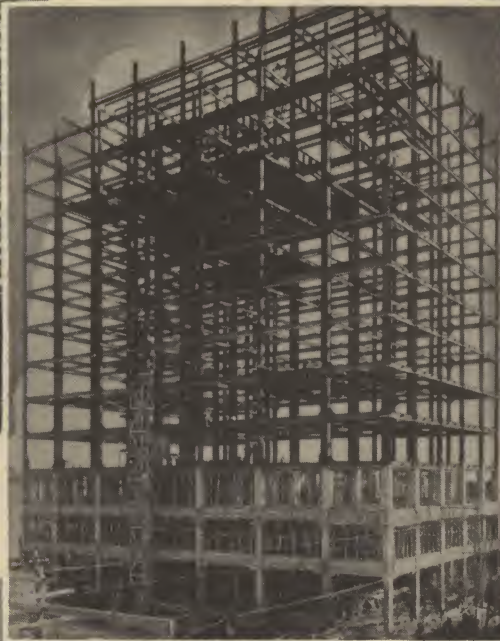
ROBERTS & MANDER STOVE COMPANY PLANT, HATBORO, PA.

W. P. Cameron Engineering Company, *Engineers and Contractors.* Montgomery Iron & Steel Company, *Fabricators.*



VALKER BUILDING, MINOT, N. D.
J. Howard Hess, *Architect.*
St. Paul Foundry Co., *Fabricators.*
Bettensburg Construction Co., *General Contractors.*

SANTA FE OFFICE BUILDING
AMARILLO, TEXAS
Designed by A. T. & S. F. Engineering Department.
Houston Structural Steel Co., *Fabricators and Erectors.*
The Brennan Company, *General Contractors.*



PAULSEN DENTAL & MEDICAL BUILDING
SPOKANE
G. A. Pehrson, *Architect.*
Walter H. Wheeler, *Engineer.*
Hofius Steel & Equipment Co., *Fabricators.*
Rounds-Clist Co., Inc., *General Contractors.*



PRESTWOULD APARTMENTS, RICHMOND, VA.
Alfred C. Bossom, *Architect.* Richmond Structural Steel Co., *Fabricators.*
Wise Granite & Construction Co., and Allen J. Saville, Inc., *General Contractors.*



FIRESTONE TIRE & RUBBER COMPANY DISTRIBUTING AGENCY
BUILDING, EL PASO, TEXAS

Trost & Trost, *Architects and Engineers.*
Darbyshire-Harvie Iron & Machine Co., *Fabricators.*
H. T. Ponsford & Sons, *General Contractors.*



NATIONAL EXCHANGE BANK, DALLAS, TEXAS

Gardiner & Howe, *Architects and Engineers.*
Mosher Steel & Machinery Co., *Fabricators.* L. E. Myers Co., *General Contractors.*



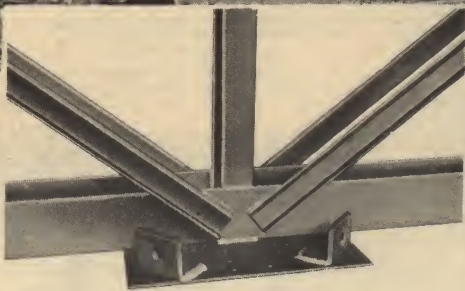
McCLATCHY BUILDING, UPPER DARBY, PA.

Wm. Steele & Sons Co., *Architects and General Contractors.*
Montgomery Iron & Steel Company, *Fabricators.*



UNIVERSITY OF MINNESOTA AUDITORIUM, MINNEAPOLIS

Clarence H. Johnston, *Architect and Engineer.*
American Bridge Company, *Fabricators.*
The Paul Steenberg Construction Co., *General Contractors.*



Arc-welded roof truss.
View of connection at one end where one tension and
one compression member join the bottom chord.

Arc-welded Building for the Philadelphia Works of the
General Electric Company,
Switchgear Department, Building No. 1.
American Bridge Company, *Fabricators.*
U. G. I. Contracting Company, *General Contractors.*



Arc-welded roof truss, 58' long x 8' deep.
View of connection where two tension members and one
compression member join the bottom chord.



THE AMERICAN ENKA CORPORATION, ASHEVILLE, N. C.
Virginia Bridge & Iron Company, Fabricators. The H. K. Ferguson Company, Engineers and Builders.



BODY PLANT OF GRAHAM-PAIGE BODY
CORPORATION, EVANSVILLE, INDIANA
The International Steel & Iron Co.,
Fabricators and Erectors.
M. J. Hoffman Construction Co., *General Contractors.*



HENRY VOGT MACHINE CO., LOUISVILLE, KY.
D. X. Murphy & Bros., *Architects and Engineers.*
McClintic-Marshall Construction Co., *Fabricators.*
H. A. Doll Co., *General Contractors.*



WAREHOUSE,
INTERNATIONAL HARVESTER CO.,
Topeka, Kan.
Capitol City Iron Works Co.,
Fabricators and Erectors.



ROYAL CRYSTAL SALT CO.,
SALT LAKE CITY
C. N. Anderson & John A. Kalmyer, *Architects.*
Frank M. Allen Co.,
Fabricators and Steel Contractors.



HOUSTON PLANT
WYATT METAL & BOILER WORKS
Fabricated and erected by
Houston Structural Steel Company.



VIEWS OF SUBWAY CONSTRUCTION IN NEW YORK CITY
American Bridge Company, Fabricators.



TRENTON-MORRISVILLE BRIDGE OVER THE DELAWARE RIVER

Designed by the Joint Commission for Elimination of Toll Bridges.
 American Bridge Company, *Fabricators.* N. A. Bugbee Company, Inc., *General Contractors.*
 Views show Span No. 4 and East Section Lift Span.



LOVERS' LANE BRIDGE, MORETOWN, VT.
 Fabricated and erected by the Palmer Steel Company.
 Houser Building Company, *General Contractors.*



**STATE HIGHWAY COMMISSION BRIDGE
 AT TWIN MOUNTAIN, N. H.**
 Fabricated and erected by American Bridge Company.



BRIDGE AT MIDDLESEX, VT.
 Fabricated and erected by the Palmer Steel Company.
 Houser Building Company, *General Contractors.*



JAMES RIVER BRIDGE, VIRGINIA
 The project consists of three bridges totalling 5½ miles in length.
 View shows section over Chuckatuck Inlet.
 J. E. Greiner Company, *Engineers.*
 Turner Construction Company, *Builders.*

Arc-welded steel bridge at plant of
Westinghouse Electric & Manufacturing Co.
at Chicopee Falls, Mass.
Palmer Steel Co., *Contractors.*
Tarbell & Leete, *Steel Erectors.*



Gratiot Avenue Separation Bridge on the
Grand Trunk Railroad at Detroit, Mich.



1,100,000 gallon Elevated Tank at plant of
Libby Owens Glass Company, Charleston, W. Va.
Built by Chicago Bridge & Iron Works.



CARNEGIE STEEL COMPANY

PRODUCTS

BLAST FURNACE PRODUCTS

Pig Iron and Ferro-Manganese

OPEN-HEARTH AND BESSEMER PRODUCTS

Ingots, Blooms, Billets, Slabs, Sheet Bars

STRUCTURAL MILL PRODUCTS

Carnegie Beam Sections and Standard Beams
H-Beams, Channels, Angles, Tees, Zees
Ship and Car Building Sections, Bulb Angles
Steel Sheet Piling and Cross Tie Sections
Miscellaneous Structural Sections

BAR MILL PRODUCTS

Channels, Angles, Tees, Zees
Merchant Bars, Squares, Rounds, Hexagons
Welding and Threading Steel, Spring Steel
Flat Steel, Square, Band and Round Edge
Cooperage, Hoop and Band Steel, Cotton Ties
Tire Steel, Round Edge and Oval Edge
Concrete Bars and Deformed Bars
Automobile Sections and Window Sections
Miscellaneous Bar Sections

ALLOY STEEL FOR VARIOUS PURPOSES

PLATE MILL PRODUCTS

Sheared Plates, Universal Mill Plates and Skelp
Column Base Plates
Carnegie Floor Plates

RAIL MILL PRODUCTS

Standard, Miscellaneous and Light Rails
Splice Bars, Tie Plates and Spikes
Steel Cross Ties and Track Accessories

FORGED AND WROUGHT PRODUCTS

Axles for Steam, Electric and Industrial Service
Wheels for Steam, Electric and Industrial Service
Wheel Blanks and Miscellaneous Circular Forgings

FABRICATED PRODUCTS

Steel Mine Timber, Gangway Sets
Steel Sheet Piling

COKE

Foundry, Blast Furnace and Domestic Coke

COKE BY-PRODUCTS

Ammonia Liquor and Ammonium Sulphate
Naphtha, Naphthalene, Tar and Tar Products
Benzol, Toluol, Xylol, Phenol and Cresol

FURNACE SLAG

Crushed, Granular, Sand and Concrete Slag
Basic Phosphoric Slag

CARNEGIE STEEL COMPANY

SUBSIDIARY OF UNITED STATES STEEL CORPORATION

OFFICES

GENERAL OFFICES:

PITTSBURGH, Carnegie Building, 434 Fifth Avenue.

DISTRICT OFFICES:

BIRMINGHAM, Brown-Marx Building, 2000 First Avenue, North,
BOSTON, Statler Office Building, 20 Providence Street,
BUFFALO, The Marine Trust Co. Building, 233-239 Main Street,
CHICAGO, 208 South La Salle Street,
CINCINNATI, Union Trust Building, Fourth and Walnut Streets,
CLEVELAND, Rockefeller Building, 614 Superior Avenue, N. W.,
DENVER, First National Bank Building, 17th and Stout Streets,
DETROIT, 2130 Buhl Building, 535 Griswold Street,
NEW ORLEANS, Maison Blanche, 921 Canal Street,
NEW YORK, Empire Building, 71 Broadway,
PHILADELPHIA, Widener Building, Chestnut and Juniper Streets,
PITTSBURGH, Carnegie Building, 434 Fifth Avenue,
ST. LOUIS, 506 Olive Street,
ST. PAUL, 1308 Merchants National Bank Building, 4th and Robert Streets.

EXPORT REPRESENTATIVES:

UNITED STATES STEEL PRODUCTS CO.

NEW YORK, Hudson Terminal, 30 Church Street.

PACIFIC COAST REPRESENTATIVES:

UNITED STATES STEEL PRODUCTS CO., PACIFIC COAST DEPT.

LOS ANGELES, 2087 East Slauson Avenue,
PORTLAND, 777 Nicolai Street,
SAN FRANCISCO, Russ Building, Pine and Montgomery Streets,
SEATTLE, Fourth Avenue South and Connecticut Street.



